7,200 RPM
2.5-Inch SATA Hard Disk Drives

TOSHIBA
Leading Innovation

High-durability Model Targeted at Demanding 24x7 Applications

MK8061GSYB
MK1661GSYB
MK2561GSYB
MK5061GSYB

Leveraging Toshiba's extensive experience in the enterprise market, the MKxx61GSYB Series 7,200 RPM hard disk drive is a high-durability model targeted at demanding 24x7 applications such as network routers, network switches, blade servers, and point-of-sale terminals. With up to 500GB[1] of storage capacity, the MKxx61SGYB offers the reliability and performance in a 2.5-inch small form factor design required for such applications.

Demonstrating Toshiba's ability to supply optimized designs for specific application requirements, the MKxx61GSYB Serial ATA drive offers greater power efficiency over 3.5-inch drives and extremely quiet acoustics. Continuing Toshiba's tradition of innovation, the drive is halogen-free[2] and delivers lowered heat generation and power consumption during operation.

- Up to 500GB[1] of Storage Capacity
- 9.5-millimeter High Profile
- Serial ATA 3.0 Gb/sec, Revision 2.6 / ATA-8
- 16MB Cache Buffer

Hard Drive

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	MK8061GSYB	MK1661GSYB	MK2561GSYB	MK5061GSYB
Series Overview				
Drive Capacity	80GB[1]	160GB[1]	250GB[1]	500GB[1]
Drive Interface	Serial ATA 3.0 Gb/sec, Revision 2.6 (ATA-8)			
Number of Platters (disks)	1	1	1	2
Number of Data Heads	1	2	2	4
RoHS Compliant	Yes			
Transfer Rate to Host	3 Gb/sec			
Performance				
Track-to-track Seek	1ms			
Average Seek Time	10.5 ms			
Rotational Speed	7,200 RPM			
Average Latency	4.17ms			
Buffer Size	16MB			
Power Requirements				
Voltage	5V (+/-5%)			
Spin up (start) Power	5.5 watts			
Seek Power	2.3 watts			
Read/Write Power	2.1 watts			
Low Power Idle	0.8 watts			
Standby Power	0.16 watts			
Sleep Power	0.13 watts			
Physical Size				
Dimensions (W) x (D) x (H)	69.85 mm (2.75”) x 100 mm (3.94”) x 9.5 mm (0.37”)			
Weight	115 g (4.06 oz)			
Environmental				
Temp - Operating	5° to 55°C (41° to 131°F)			
Temp - Non-Operating	-40° to 65°C (-40° to 149°F)			
Vibration - Operating	9.8 m/s² (1.0G) 5 to 500 Hz			
Vibration - Non-Operating	49 m/s² (5.0G) 15 to 500 Hz			
Shock - Operating	3,185 m/s² (325G) 2ms			
Shock - Non-Operating	8,820 m/s² (900G) 1ms			
Acoustics				
Acoustics (idle)	23 dB	23 dB	23 dB	26 dB
Acoustics (seek)	23 dB	23 dB	23 dB	26 dB
Limited Warranty				
Limited Warranty	3 years (from date of purchase)			

[1] One Gigabyte (1 GB) means 10^9 = 1,000,000,000 bytes using powers of 10. A computer operating system, however, reports storage capacity using powers of 2 for the definition of 1 GB = 2^{30} = 1,073,741,824 bytes, and therefore shows less storage capacity. Available storage capacity will also be less if the computer includes one or more pre-installed operating systems, pre-installed software applications, or media content. Actual formatted capacity may vary.

[2] Products are considered “Halogen-free” when each homogeneous material in the product consists of a maximum bromine or chlorine concentration of 900 parts per million for weight percentage. Group VIIA halogens, fluorine, iodine and astatine, are not restricted in the industry-standard, ENV0199 description. Toshiba also restricts concentrations of red phosphorus and antimony trioxide in its Halogen-free HDD products.

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